

Table 1. Pesticide active ingredients that must be included in annual report to the Department of the Interior (Department) Pesticide Review Work Group because of high potential for their use to cause adverse environmental effects.¹ Most of the chemicals listed here are restricted use. However, restricted use pesticides that are not on this table are also subject to Department reporting.

Active ingredient	Environmental concern ²					
	Aquatic toxicity kills	Fish kills	Avian toxicity kills	Bird kills	Mammal toxicity kills	Mammal kills
acephate ³			X	?		
acrolein	X	X				
alachlor	X	?				
aldicarb	X	?	X	X	X	X
aluminum phosphide			X	?	X	X
atrazine	X	?				
azinphos methyl	X	X	X	X	X	?
bendiocarb	X	?	X	X	X	?
benomyl ⁴	X	?				
bifenthrin	X	?				
brodifacoum	X ⁵		X	?	X	X
bromadiolone	X ⁶		?	?	X	X
bromethalin			X	?	X	X
carbofuran	X	X	X	X	X	X
carbophenothion	X	?	X	?	X	?
carbosulfan	?	?	X	?	X	?
chlorophacinone	X ⁵		X	?	X	X
chlorpyrifos	X	?	X	X		
coumaphos	?	?	?	?		
cyanazine	X	?				
cyfluthrin	X	?				
cyhalothrin	X	?				
cypermethrin	X	?				
demeton ⁷			X	?	X	?
diazinon	X	?	X	X		
dichlorvos	X	?	X	?		

¹"?" indicates that data are not readily available to ascertain whether there is a concern.

²Toxicity refers to acute (i.e., short-term exposure) unless otherwise noted. Lack of an "X" under a given taxa does not mean it is "safe" to use in the habitat to that taxa.

³Methamidophos, which is very toxic, is a metabolite.

⁴Some benomyl formulations have been linked to non-target phytotoxicity.

⁵Normal use of this pesticide should not result in water contamination.

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⁷Mobay discontinued the U. S. registration in 1989.

Table 1. Continued.

<u>Active ingredient</u>	<u>Environmental concern</u>					
	<u>Aquatic toxicity kills</u>	<u>Fish kills</u>	<u>Avian toxicity kills</u>	<u>Bird kills</u>	<u>Mammal toxicity kills</u>	<u>Mammal kills</u>
diclofop-methyl	X	?	X		X	
dicofol ⁸	X	?	X	?		X
dieldrin ⁹	X	?	X	?	X	?
dicrotophos	X	?	X	X		
dimethoate			X	X		
diphasinone	X ⁵		X	X	X	X
disulfoton	X	?	X	X	X	X
endosulfan	X	X	X	X		
endrin ¹⁰	X	X	X	X	X	?
EPN ¹¹	X	?	X	?	X	?
esfenvalerate	X	X				
ethoprop	X	?	X	X		
fenamiphos	X	X	X	X		
fenpropathrin	X	?				
fensulfothion	X	?	X	X	X	?
fenthion	X	?	X	X		
fenvvalerate	X	?				
flucythrinate	X	?				
fluvalinate	X	?				
fonofos	X	?	X	?		
isazofos	X	?			X	?
isofenphos	X	?	X	X	X	?
lambda-cyhalothrin	X	?				
lindane	X	?				
malathion	X	X				
methamidophos	X	?	X	X	X	?
methidathion	X	?	X	?		
methiocarb	X	?	X	?	X	?
methyl parathion			X	X	X	?
mevinphos	X	?	X	X	X	?
mexacarbate	X	?	X	X	X	?
monocrotophos ¹³	X		X	X	X	?
naled	X	?				
ordram	X	X				

⁸Contains DDT as a contaminant.⁹All uses cancelled as of 1971.¹⁰All uses cancelled as of 1984.¹¹All uses cancelled as of 1987.¹²Methiocarb has bird repellent properties. This may limit the actual exposure under field conditions, thus mitigating the actual hazard.¹³DuPont voluntarily cancelled registration as of 1989.

Table 1. Continued.

Active ingredient	Environmental concern					
	Aquatic toxicity kills	Fish kills	Avian toxicity kills	Bird kills	Mammal toxicity kills	Mammal kills
oxadiazon	X	?				
oxamyl	X	?	X	?	X	?
oxydemeton-methyl	X	?	X	?	X	
paraquat			X	?	X	?
parathion (ethyl)	X	?	X	X	X	X
permethrin	X	X				
phorate	X	X	X	X	X	X
phosmet	X	?	X	?		
phosphamidon			X	X		
picloram	X					
pival			?	?	X	X
propargite	X	?				
propoxur			X	?		
resmethrin	X	X				
sodium cyanide ¹⁴	X	? ¹⁵	X	X	X	X
sodium fluoroacetate ¹⁶	?	?	X	X	X	X
strychnine ¹⁷			X	X	X	X
tefluthrin	X	X				
terbufos	X	X	X	X	X	X
toxaphene ¹⁸	X	X				
tralomethrin	X	X				
trichlorfon	X	X	X	?		
trifluralin	X ¹⁹	?				
zinc phosphide			X	X	X	X

¹⁴The only legal use is in "M-44s".

¹⁵Although highly toxic to aquatic fauna, it is unlikely that proper pesticidal use of sodium cyanide will result in water contamination.

¹⁶The only legal use is in livestock collars.

¹⁷The only legal use is for below-ground application to control rodents.

¹⁸All uses cancelled as of 1982, but existing stocks provisions remain for limited uses.

¹⁹In addition to acute toxicity concerns, trifluralin also may cause skeletal abnormalities in fish.